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wil	AA100	4,235,877	11/25/1980	Fullerton			06/27/1979
	AB100	4,487,715	12/11/1984	Nitecki et al.			07/09/1982
1	AC 100	4,5995230	07/08/1986	Milich et al.		7	03/09/1984
	AD100	4,837,028	06/06/1989	Allen			12/24/1986
	AE100	5,013,548	05/07/1991	Haynes et al.			01/21/1988
	AF100	5,128,319	07/07/1992	Arlinghaus			09/20/1989
	AG100	5,736,142	04/07/1998	Sette et al.			09/14/1994
	AH100	5,783,567	07/21/1998	Hedley et al.		~	01/22/1997
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1	AM100	EP 0 429 816	06/05/1991	Europe			Yes No
1	AN100	EP 0 433 242.	06/19/1991	Europe	_	_	Yes No
-	AO100	WO 93/03764	03/04/1993	WIPO			Yes No
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$ m\rangle$	AR <u>1</u>	Alexander, J., et	al., "Develor lification of H	oment of High Potency Univer High Affinity DR-Blocking Pe	rsal DR-		
	AS 1	Arndt, S.O., et a. HLA-DM," Imm	l., "Selection unol. Res. 16	of the MHC Class II-Associa: 261-272, Humana Press (Dec	ted Pept	ide Repertoi 1997)	re by
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		AS	101	Ben-Yedidia, Biotechnol. 8:	T., and Arnon, 442-448, Curre	R., "Design of ent Biology, Ltd	peptide and poly l. (1997)	peptide	e vaccines,"	Curr. Opin.
7	-	AT	101	Carbone, F.R. Vivo Peptide	, and Bevan, N Immunization,	I.J., "Induction of J. Exp. Med. 1	of Ovalbumin-S <sub>1</sub> 69:603-612, Roo	pecific ckefelle	Cytotoxic T er University	Cells by In Press (1989)

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	AS	102	Cassell, D., and Determinants fo 60, New York A	r the Genera	"Linked Recognition of He tion of Cytotoxic T Lymph Sciences (1991)	lper and Cy ocytes," An	totoxic Anti n. N.Y. Acad	genic <i>I. Sci.532</i> :51-
9	AT	102	Deres, K., et al., lipopeptide vacc	"In vivo pri ine," Nature	ming of virus-specific cyto 342:561-564, Nature Publ	toxic T lym ishing Grou	phocytes wir p (1989)	th synthetic
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1	АТ	103	Different Combi	inations of	LA-B14 Peptide Bindin Anchor Residues," <i>J. Bi</i> nd Molecular Biology (1	iol. Chem.	n Accor 269:32	mmodate Pe 2426-32434,	ptides with American
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X	AT	<u>104</u>	Fynan, E.F., et a gene-gun inocula Sciences (1993)	l., "DNA vations," Pr	vaccines: Protective immuniza roc. Natl. Acad. Sci. USA 90:1	ations by pa 11478-1148	arental, mucc 2, National A	osal, and Academy of
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	AS	105	Golvano, J., et a Immunol. 20:230	d., "Polarit 63-2366, V	y of immunogens: implication 'CH Verlagsgesellschaft mbH	ns for vacci (1990)	ne design,"	Eur. J.
+	АТ	105	Gulukota, K., et Histocompatibil Limited (April 1	ity Comple	Complementary Methods for ex Molecules," <i>J. Mol. Biol. 2</i>	Predicting 67:1258-12	Peptides Bir 167, Academ	nding Major nic Press
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	AS	115	Immune Adjuva	Reitermann, A., et al., "Lipopeptide Derivatives of Bacterial Lipoprotein Constitute Potent Immune Adjuvants Combined with or Covalently Coupled to Antigen or Hapten," Biol. Chem. Hoppe Seyler 370:343-352, Walter De Gruyter (1989)								
+	АТ	115	Restifo, N.P., et Responses," J. Ii	al., "Antigon mmunol. 15	en Processing In Vivo and 54:4414-4422, American A	d the Elicit Association	atior	ı of Primary Immunologi	CTL sts (1995)			
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	AS	<u>116</u>	cell repertoire' to	Schaeffer, E.B., et al., "Relative contribution of 'determinant selection' and 'holes in the T-cell repertoire' to T-cell responses," <i>Proc. Natl. Acad. Sci. USA 86</i> :4649-4653, National Academy of Sciences (1989)							
	АТ	116	Schumacher, T.N 706, Nature Publ		"Peptide selection by MHC up (1991)	C class	I mol	ecules," Nat	ure 350:703-		
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	AS	<u>117</u>	Sette, A., et al., Peptides," J. Imi	"A Novel Anunol. 145:	Approach to the Generation of 1809-1813, American Asso	of High Affi	nity Class II nmunologist	-Binding s (1990)
+	AT	117	Sette, A., et al., Interaction with Association of In	MHC Class	Conformational Propensity of St. In Molecules," J. Immunol. sts (1989)	of Peptide A	ntigens in Tl 273, Ameri	neir can
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	AS	118	Sidney, J., et al., Peptide-Binding Elsevier Science	Repertoire	on of an HLA-A3-Like Ses of Common HLA Mol	upermotif ecules," <i>F</i>	Demo	onstrates the mmunol. 45:	Overlapping 79-93,
+	AT	118	Sidney, J., et al., HLA class I supe	"Practical ermotifs,"	, biochemical and evolut Immunol. Today 17:261-	ionary im 266, Elsev	plication	ons of the di	scovery of
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	AS	112	Sinigaglia, F., ar Curr. Opin. Imm	nd Hammer nunol. 6:52-	r, J., "Defining rul -56, Current Biolo	es for the pepti ogy Ltd. (1994)	ide-MH	C class II int	eraction,"
1	AT	119	Southwood, S., & Binding Reperto (April 1998)	et al., "Seve ires," J. Im	eral Common HLA munol. 160:3363-	A-DR Types SI -3373, America	hare Lar in Assoc	gely Overlage siation of Im	pping Peptide munologists
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	AS	120	Length and Deg	ree of Conj	"Immunogenicity of lipid-conjugated antigens. I. The Influence of Chain of Conjugation on Induction of Antibody in Mice," <i>Immunology 39</i> :345-entific Publications (1980)						
+	AT	120	Steinman, R.M., Elsevier Science	"Dendritic Inc. (1996	cells and immune-base	ed therapies	s," <i>Exp</i>	o. Hematol	<i>24</i> :859-862,		
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4	АТ	121	synthetic peptide	e vaccines pes," <i>Proc</i> .	Vaccine engineering: Enhar related to hepatitis in chem. Natl. Acad. Sci. USA 86:90	ically defined	models con	sisting of T-		
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	AS .	122 C	on Boehmer, H Cytotoxic Respo Press (1979)	I., and Haar onse to H-Y	ss, W., "Distinct Ir Genes for Y Antigen," J. Exp. Med. 13	or Helper and 50:1134-114	l Killer Cells 2, Rockefelle	in the rr University
4	AT	<u>122</u> w	Vatari, E., <i>et al.</i> vith Herpes Sim 1987)	., "A Synth	netic Peptide Induces Longs s 2," <i>J. Exp. Med. 165</i> :459-	Term Protec 470, Rockef	tion from Le	thal Infection ity Press
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	AS	123	Epitope Express	sion: Respon	onses	ction of Virus-Specific CT s Rise Steadily Until Exces 35-3745, American Associ	ssivel	ly Hig	h Levels of	Epitope Are
	АТ	123	Widmann, C., et with MHC class Science Publishe	I-restricted	d ma	epitopes enhance the cytonalaria peptides," <i>J. Immuno</i>	toxic	respo eth. 1	nse of mice 55:95-99, El	immunized Isevier
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	AS	<u>124</u>	Wiesmüller, K-I mouth disease of Butterworth & C	ontaining a	Novel low-molecula potent B cell and π	ar-weight syn nacrophage a	thetic vactivator,	accine again " Vaccine 7	st foot-and :29-33,
4	AT	124	Yewdell, J.W., a Class I-Restricte Reviews Inc. (A	d T Lympl	k, J.R., "Immunodo nocyte Responses,"	minance in N Annu. Rev. In	Aajor Hi mmunol	stocompatib . 17:51-88, A	oility Complex Annual
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	AS	208	Subdominant Ep	itopes Duri	Analysis of Cytotoxing Acute and Chron: :5543-5554, America	nic Lymphocy	vtic Cho	oriomeningit	tis Virus
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	AS	209	Wentworth, P.A Peripheral Blood 32:603-612, Per	d Mononuc	n Vitro Induction of Primary clear Cells Stimulated with S ss (1995)	/, Antiger Synthetic	n-Sp Pep	ecific CTL i	from Human Immunol.	
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yrs. s	AN1	WO 92	2/02543 A1	02/20/1992	WIPO				Yes No
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421	AT	<u>6</u>	Engelhard, Curr. Opin	V.H., "Struc . Immunol. 6:	ture of peptides associate 13-23, Current Biology, Lt	d wit d. (F	h MHC ebruar	Class I m y 1994)	olecules,"
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	AS	Falk, K., et al., "MHC peptide motif register. Peptide motifs of HLA-B35 and -B37 molecules," Immunogenetics 38:161-162, Springer-Verlag (April 1993)						
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	AS	Falk, K., et al., "Peptide motifs of HLA-A1, -A11, -A31, and -A33 molecules,"  Immunogenetics 40:238-241, Springer-Verlag (July 1994)						
4	AT 4	Foon, K.A., "Biological Response Modifiers: The New Immunotherapy," Cancer Res. 49:1621-1639, American Association for Cancer Research (1989)						
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	AT	Henderson, R.A., et al., "HLA-A2.1-Associated Peptides from a Mutant Cell Line: A Second Pathway of Antigen Presentation," Science 255:1264-1266, American Association for the Advancement of Science (March 1992)							
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ATTY. DOCKET NO. 2060.0060008/EKS/PAJ/M-M	APPLICATION NO. 09/350,401
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#### FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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#### SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
2060.0060008/EKS/PAJ/M-M

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APPLICATION NO.
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## SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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ATTY. DOCKET NO. 2060.0060008/EKS/PAJ/M~M	APPLICATION NO. 09/350,401
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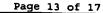
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ATTY. DOCKET NO. 2060.0060008/EKS/PAJ/M-M	APPLICATION NO. 09/350,401
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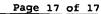
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EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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M	AR 41 Cohen, J., "The Scientific Challenge of Hepatitis C," Science 285:26-30, American Association for the Advancement of Science (1999).							
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W)	АТ	Wentworth, P.A., et al., "Identification of A2-restricted hepatitis C virus-specific cytotoxic T lymphocyte epitopes from conserved regions of the viral genome," Int. Immunol. 8:651-659, Oxford University press (1996).						

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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 2060.0060008/EKS/PAJ/M-M	APPLICATION NO. 09/350,401		
APPLICANT SETTE et al.			
FILING DATE July 8, 1999	GROUP 1644		

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M/	AR	42	OTHER (Including Author, Title, Date, Pertinent Pages, etc.)  Wong, D.K.H., et al., "Liver-Derived CTL in Hepatitis C Virus Infection: Breadth and Specificity of Responses in a Cohort of Persons with Chronic Infection," J. Immunol. 160:1479-1488, The American Association of Immunologists (1998).					
	AS	42	Pending Non Provisional U.S. Patent Application No. 09/239,043, Sette et al., filed January 27, 1999 (NOT PUBLISHED).					
·	AT 42 Pending Non-Provisional U.S. Patent Application No. 10/363,990, Sette et al., filed March 10, 2003 (PUBLISHED AS WO 02/19986 A1; see Document AP3.)							

EXAMINER

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### ELECTRONIC INFORMATION DISCLOSURE STATEMÉ就

Electronic Version v18 Stylesheet Version v18.0

> Title of Invention

Inducing Cellular Immune Responses to Hepatitis B Virus Using Peptide and Nucleic Acid Compositions

Application Number:

09/350401

**Confirmation Number:** 

8008

First Named Applicant:

Alessandro Sette

Attorney Docket Number: 2060.0060008

Search string:

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or 5143726 or 5196194 or 5780036 or 5788969 or 5840303 or 5932224 or 6037135 or 6235288 or 5200320 or 5503829 or 5662907 or 6034214 or 6037135 or 20020168374 or 20020177694 or

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#### **US Patent Documents**

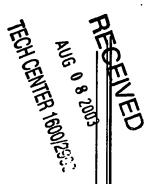
Note: Applicant is not required to submit a paper copy of cited US Patent Documents

ı		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
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	17	5200320	1993-04-06	Sette et al.
	18	5503829	1996-04-02	Ladant et al.
	19	5662907	1997-09-02	Kubo et al.
	20	6034214	2000-03-07	Boon et al.
	21	6037135	2000-03-14	Kubo et al.



### **US Published Applications**

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
M	1	20020168374	2002-11-14	Kubo et al.	A1	-	<u>, , , , , , , , , , , , , , , , , , , </u>
	2	20020177694	2002-11-28	Sette et al.	A1		
	3	20020098197	2002-07-25	Sette et al.	A1		
	4	20030021809	2003-01-30	Chisari	A1		

### Signature

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PTO/SB/08A (08-00)

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Application Number	09/350,401
Filing Date	July 8, 1999
First Named Inventor	AUG 0 3 2011
Group Art Unit	1644
Examiner Name	R. Schwadron ECH CENTER 1600 2900
Attorney Docket Number	018623-013910US

			U.S. PATENT DOCUM	MENTS	
Examiner Initials *	Cite No.'	U.S. Patent Document  Number Kind Code² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
W (	AA	4,428,941	Galibert et al.	31 Jan. 1984	
	AB	4,599,230	Milich and Chisari	8 July 1986	
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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STATEMENT BY APPLICANT

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Group Art Unit	1644 ECH Co.	2001
Examiner Name	R. Schwadron	] ""/
Attorney Docket Number	018623-013910US	600m
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1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-latter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 6 Kind of document by the appropriate symbols as indicated on the document under WiPO Standard ST. 18 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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	Sheet	3	of	5	Attorney Docket Number	018623_013010119		

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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Application Number 09/350,401
Filling Date July 8, 1999
First Named Inventor AUG 0 3
Group Art Unit 1644
Examiner Name R. Schwadron TECH CENTER
Attorney Docket Number 018623-013910US

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· `	ДАН	Deres et al., "In Vivo Priming of Virus-specific Cytotoxic T Lymphocytes with Synthetie Lipopephide Vaccine" Nature (1989) 342: 561-564	
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Examiner Signature	V	Date Considered	12/2000

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MFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known **Application Number** 09/350,401 Filing Date July 8, 1999 **First Named Inventor Group Art Unit** 1644

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Sheet of **Examiner Name** R. Schwadron Attomey Docket Number 018623-013910US

	,	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	AAT	Penna et al., "Hepatitis B Virus (HBV)-Specific Cytotoxic T-Cell (CTL) Response in Humans. Characterization of HLA Class II-Restricted CTLs That Recognize Endogenously Synthesized HBV Envelope Antiques Journal of Virology (1992) 66(2): 1193-1198	
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Examiner Signature	<b>~</b>	Date Considered	7/9/20m

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